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SECURITY INFORMATION

50X1-HUM

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REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 13 January 1953

SUBJECT Development of Radar at RFT Funkwerk Koepenick VEB

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1. Antenna part

Discussions concerning the construction of the hollow mirror have started with the construction department and the laboratory workshop. In these discussions the following dimensions were given for the mirror: length 150 cm and breadth 50 cm. The concentration of the beam is height 15° and width 1.5°.1

2. Mixer stage

The mixer stage has been set up experimentally and works satisfactorily. A second laboratory sample has been ordered. The electrical parts for the mixer stage are still to be silvered. State of laboratory development - 50%.

3. Oscillator-fine tuning arrangement (Nachstimmrichtung)

This has been set up in the laboratory. A trial test can now be carried out in conjunction with the transmitting and receiving parts of the equipment. State of development 50%.

4. Pulse and test equipment

This is ready and has been put into service. The HF output of the pulse transmitter is 29 KW.

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5. I.F. amplifier

Construction of the I.F. amplifier cannot proceed further for the time being since the EC81 oscillator tube of the test oscillator is defective 50X1-HUM and no substitute is available. [redacted] a replacement tube is to be obtained as soon as possible [redacted]

6. Wave guide

The necessary drawn square brass tube is not available and must be obtained from the West. The wave guides used so far are made by bending three sides and soldering on the fourth.

7. The pre-amplifier

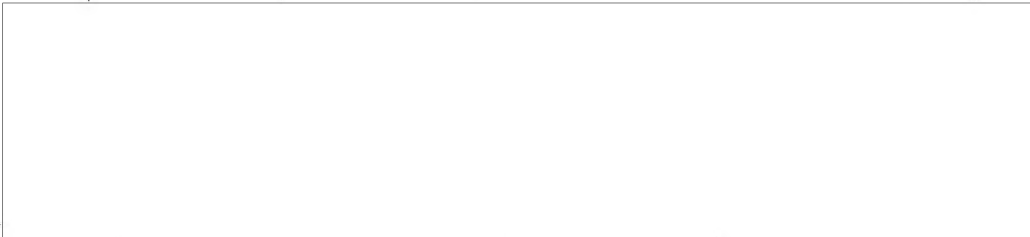
The pre-amplifier is ready and has been tested in conjunction with the mixer stage. The amplifier works satisfactorily. Stage of development 50%.

8. Simultaneous transmitting and receiving circuit

Work on the construction of this circuit will begin shortly, since discussions have been completed with the laboratory workshop.

9. Date for completion of prototype of anti-collision equipment

The target date for completion of a laboratory model of the equipment is October 1953.



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